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OF WRONG SIZE

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A y to Betablish Technical

To Department for Benefit of Truck Owners.

In cases where a badly pitted valve for the following of the properties of the company of the properties of the company of the

ing.

2. Early spark and late spark are merely terms to designate how the spark is timed by manipulation of the spark control lever, early spark meaning spark occurring a trifle before the beginning of power stroke of each piston, caused by advancing the spark lever, and late spark meaning spark occurring at the beginning or a trifle after beginning of power stroke and—caused by retarding the spark lever.

spark lever.

3. Spark advanced too far for the rate of speed at which the engine is running causes knocking of the engine and connecting rods to break. It also will cause overheating of the

f. If an engine with magneto ig-

It also will cause overheating of the engine.

4. If an engine with magneto ignition continues to run after the ignition is switched off, the trouble lies in the magneto ground wire, which may be disconnected, loose or broken. Sometimes a break in the wire may be unnoticed because the insulation around the wire may not be damaged.

5. There are 10,922,278 automobiles in the world, according to late registratization figures, and of this number 83 per cent are in the United States.

6. Many cars which have given considerable mileage run good at average or high rates of speed when the engine is pulling steadily, but as soon as the throttle is closed and the car speed dies the car runs jerky. This is usually caused by looseness due to wear in the universal joints, the rear axle unit and the transmission. Play between gear teeth will cause a back-and-forth movement of the gears at slow speed or when the car is coasting. Play in bearings of these units also will be noticed, and wear in the universals will not only affect the running of the car, but also will cause rattling.

7. A scraping sound in a rear wheel could be caused by sand working in between brake band or parts which operate them being in contact with the brake drum.

8. To obtain smooth running without misfiring in an engine at low speed, the spark must be set so that the cylinders will not fire too soon at retarded spark, the high-tension spark coil must be free from short-circuits, the battery must be in good condition and well charged; contact points in timer must be clean flat and adjusted to the correct spacing, distributor points should be clean and not worn, carburetor should be carefully adjusted when the engine is warm and there should be good compression. It also is necessary to use good spark plugs with points the proper distance apart. Air

leads with the largest ratio of cars to population?

7. What could cause noise in the transmission?

8. Does the sudden grabbing of a clutch, causing the car to jerk forward even when the clutch pedal is let in slowly, indicate that the clutch is adjusted too tightly?

9. To what level does the gasoline ascend in the float chamber of a carburetor?

10. What two parts or units of the automobile should be examined most frequently?

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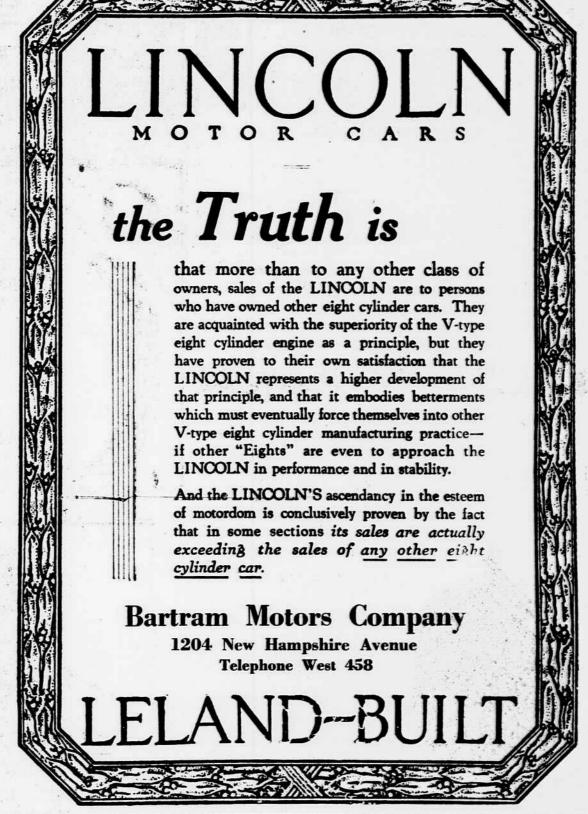
While it is a wise precaution to throw out the clutch when rounding a sharp corner, it also has a beneficial effect upon the tires. Whenever the car tends to skid, due to its deflection from a straight course, a cross strain is brought to bear on the tire treads, which is directly pro-

portional to the weight of the vehi-cle and the radius of the curve and proportional to the square of its ve-locity. If the power is applied in

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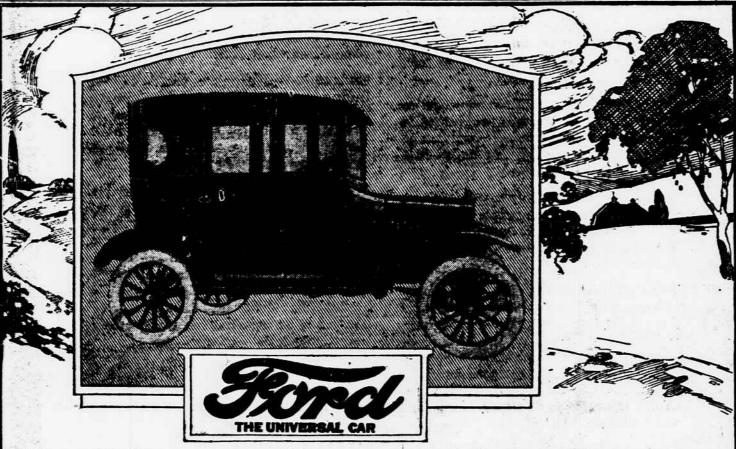
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